

FIG.1

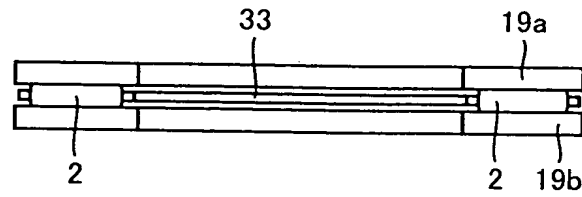


FIG.2A

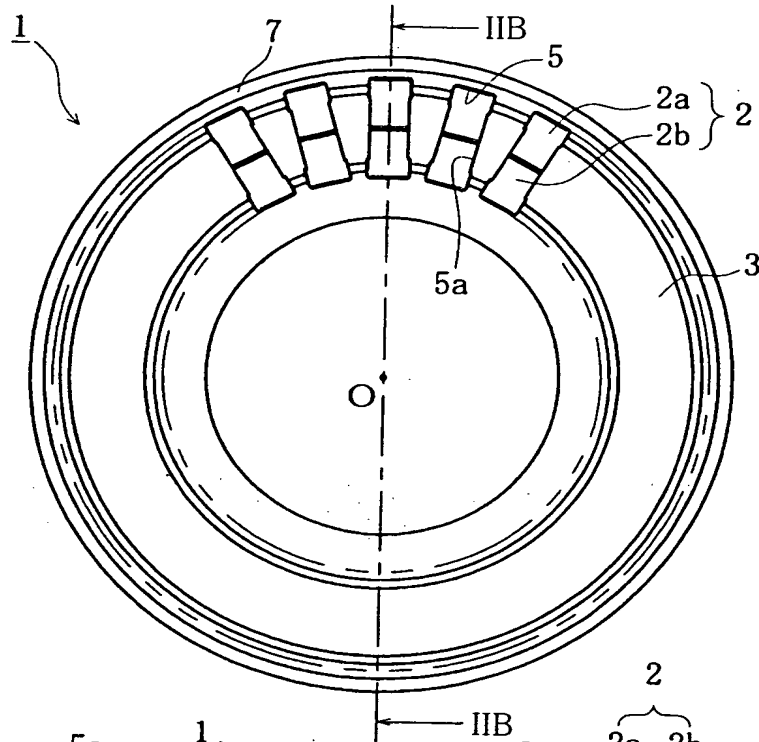


FIG.2B

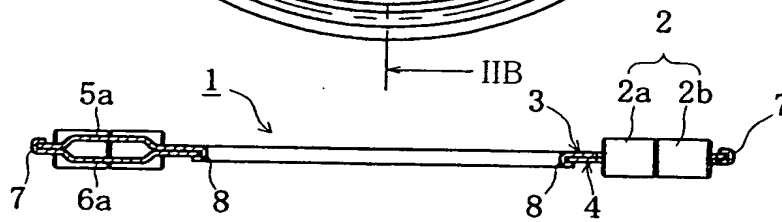


FIG.2C

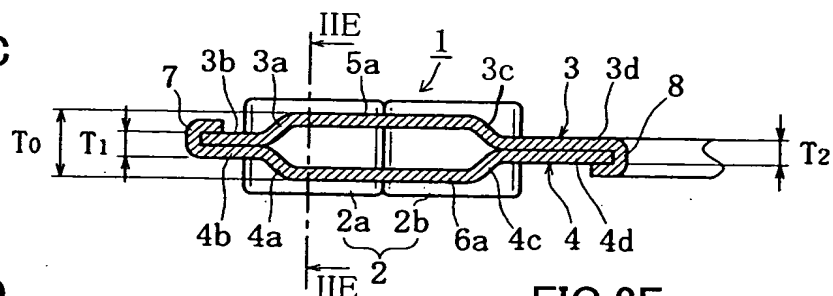


FIG.2D

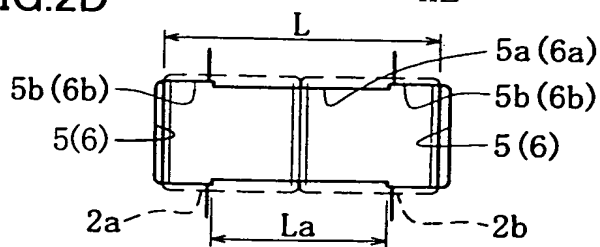


FIG.2E

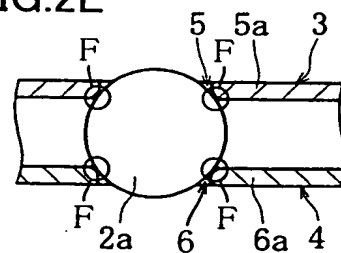


FIG.3

$0.3Lp \leq La \leq 0.8Lp$ INSIDE (CENTER)

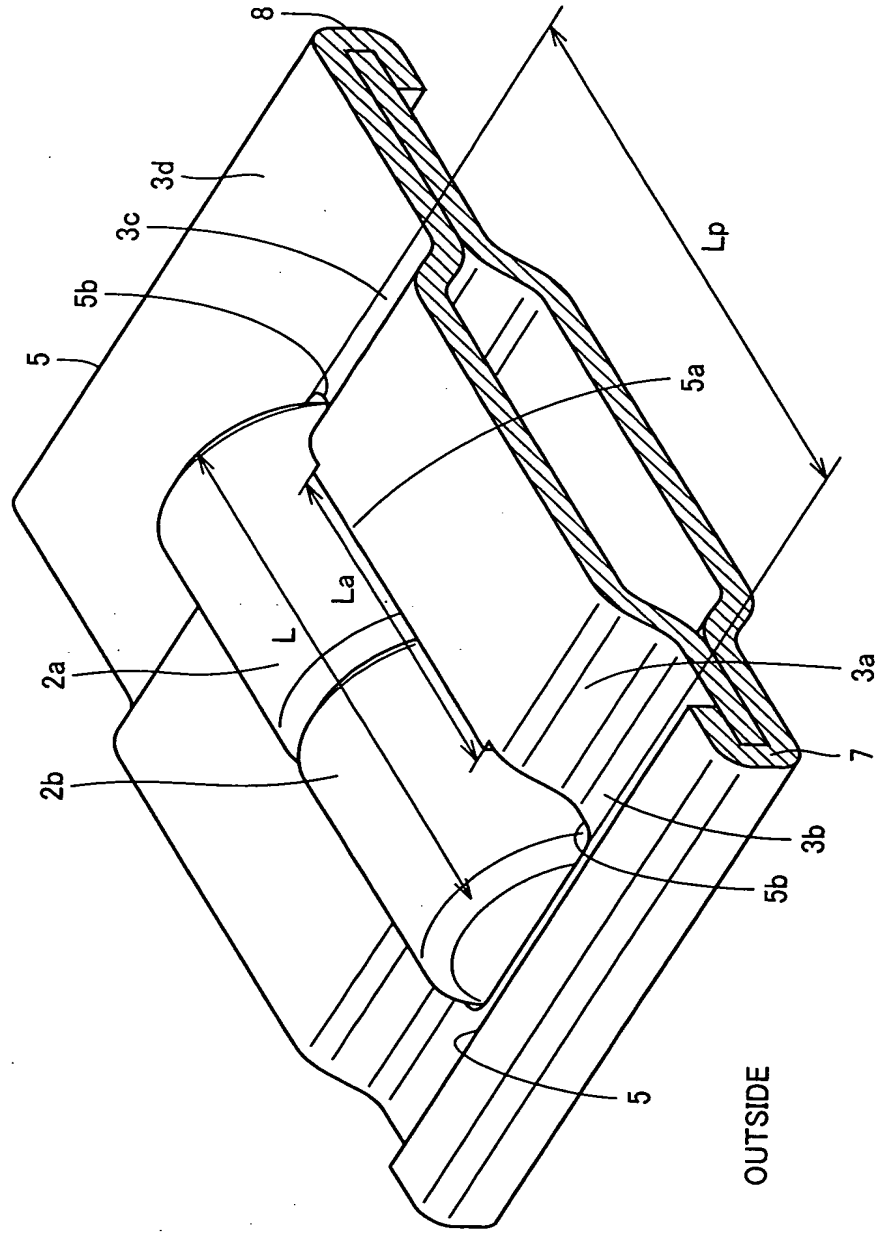


FIG.4A

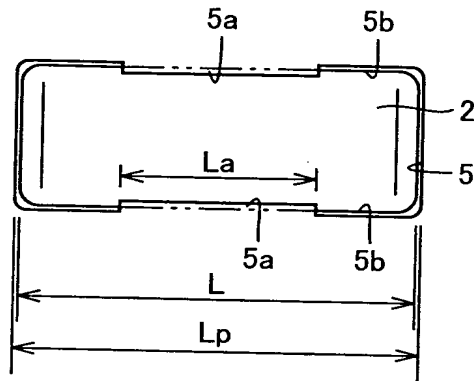


FIG.4C

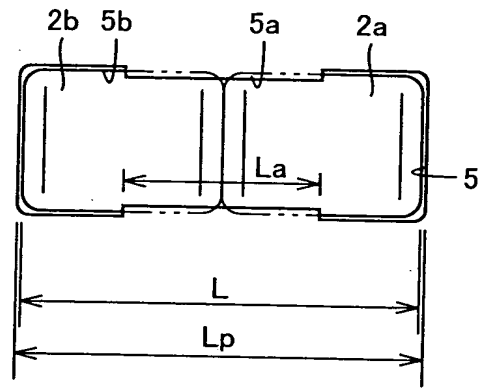
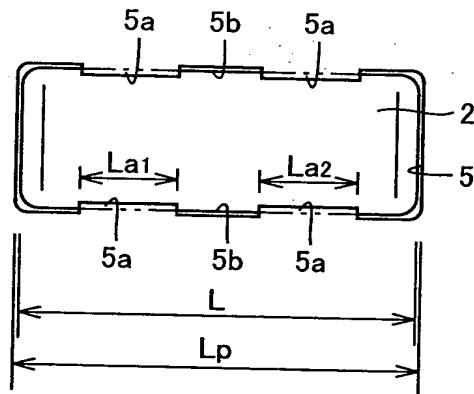
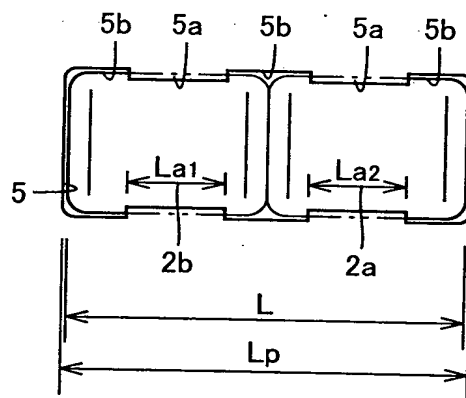


FIG.4B



$$L_a = \sum_i L_{ai}$$

FIG.4D



$$L_a = \sum_i L_{ai}$$

FIG.6A

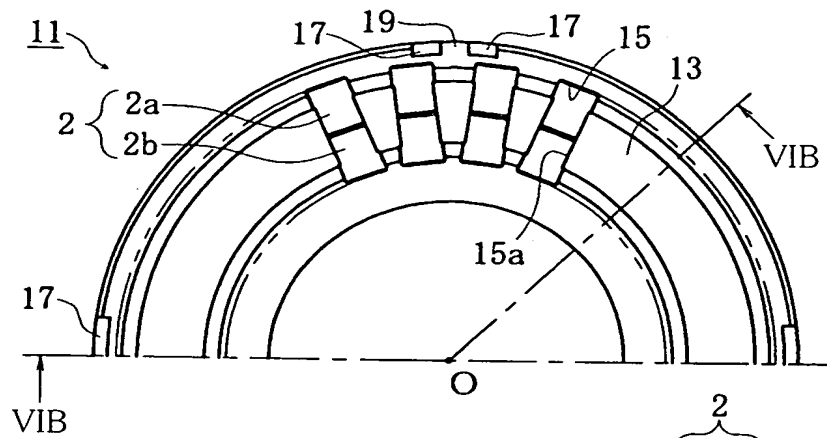


FIG.6B

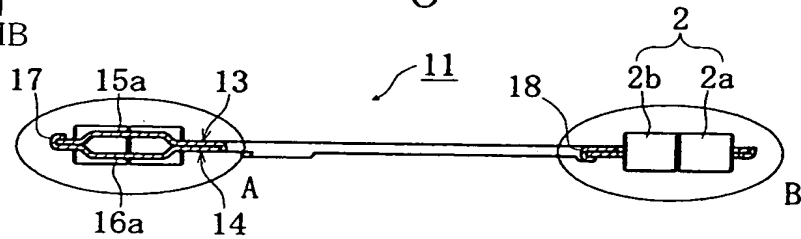


FIG.6C

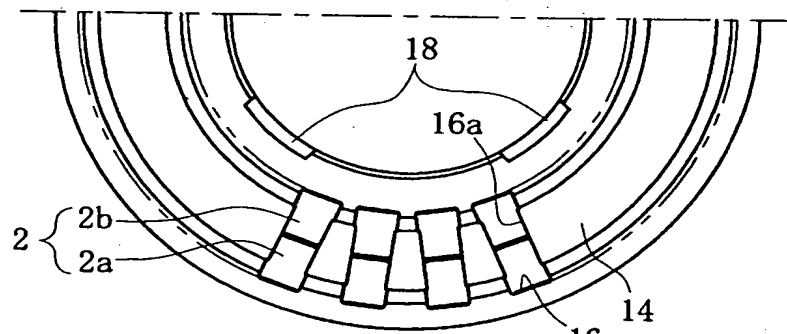


FIG.6D

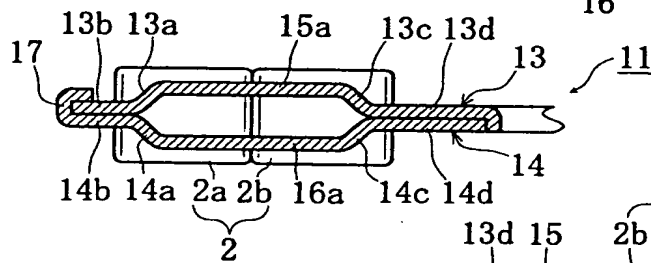


FIG.6E

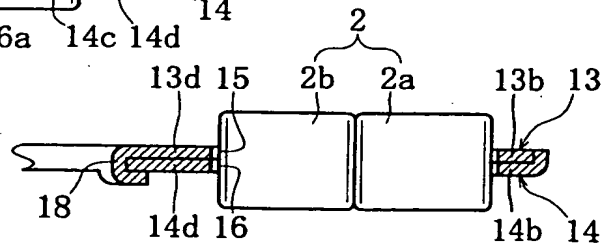


FIG.7A

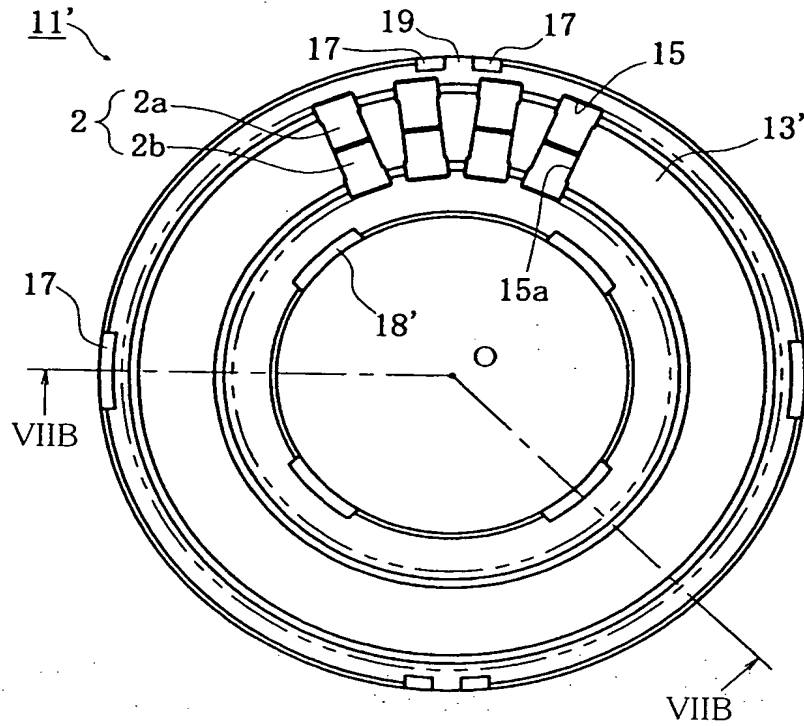


FIG.7B

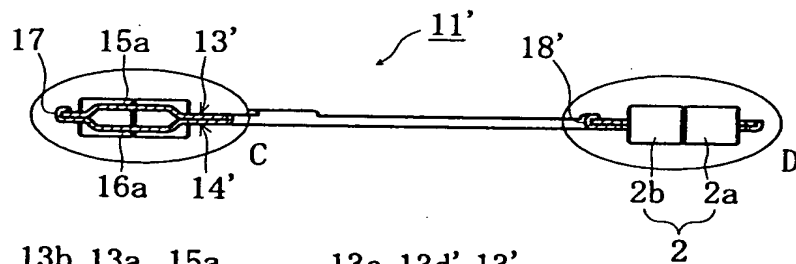


FIG.7C

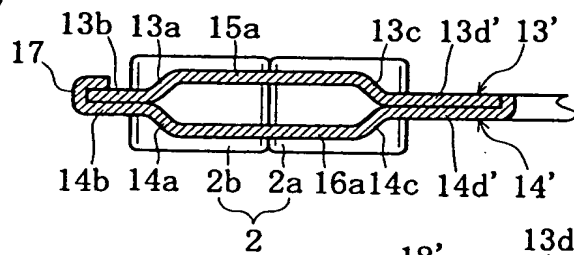


FIG.7D

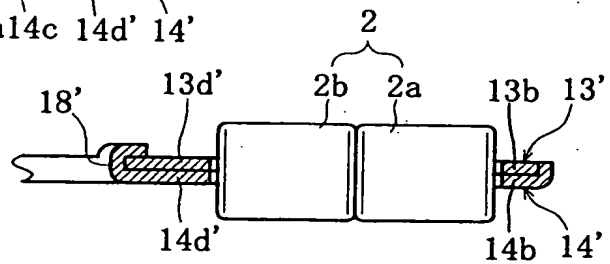


FIG.8A

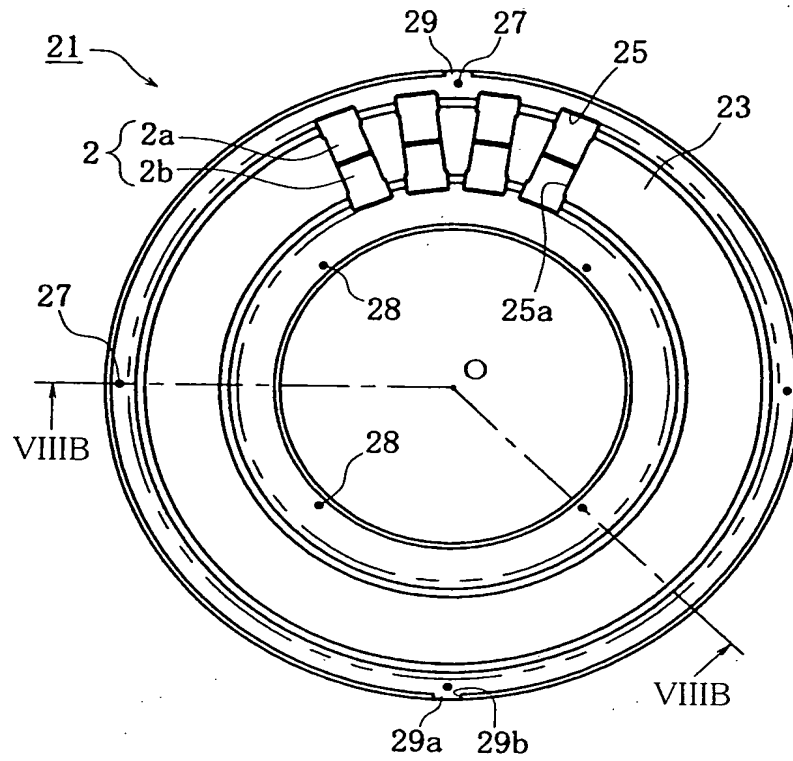


FIG.8B

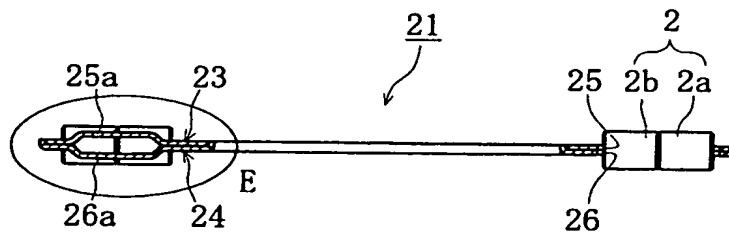


FIG.8C

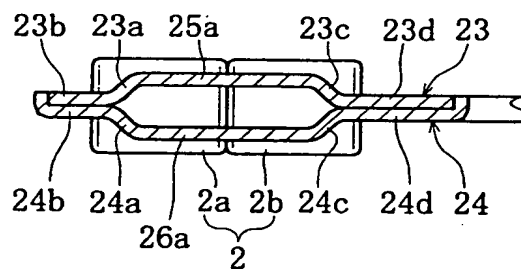


FIG.9

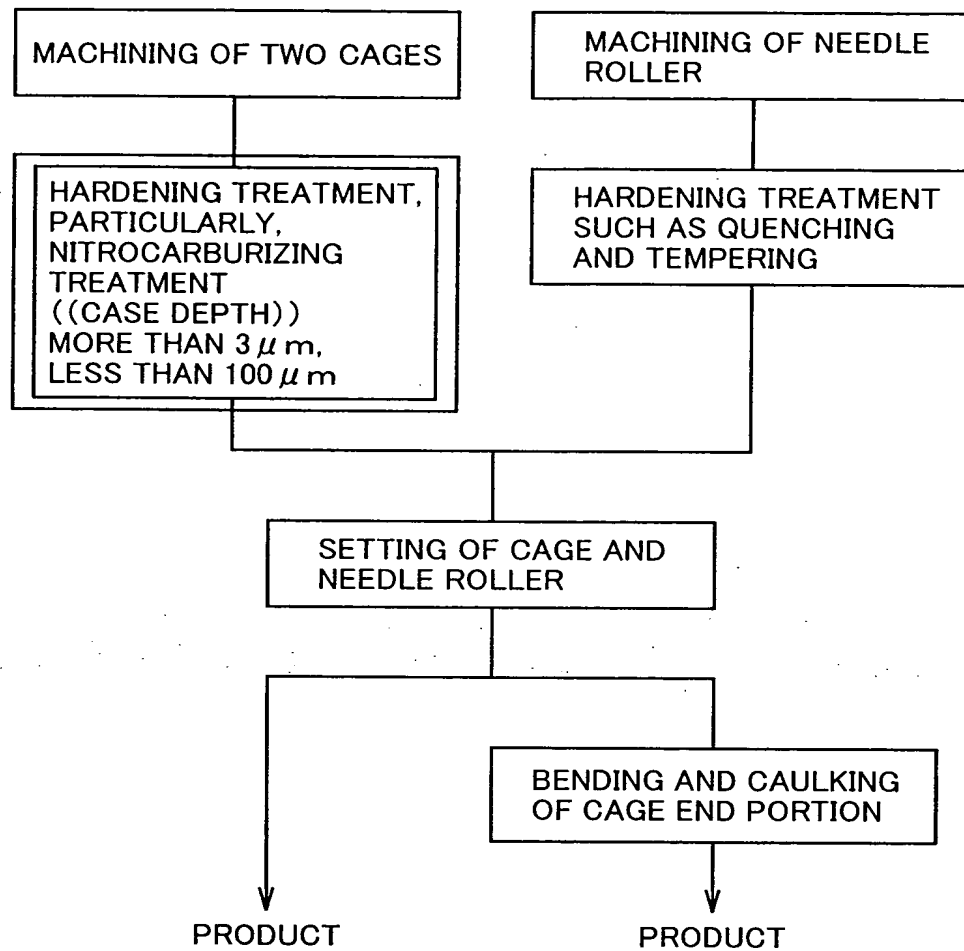


FIG.10A

CASE DEPTH $5\text{ }\mu\text{m}$
(μm) PROFILE CURVE
(LONGITUDINAL MAGNIFICATION: $\times 100.00$
LATERAL MAGNIFICATION: $\times 50.00$)

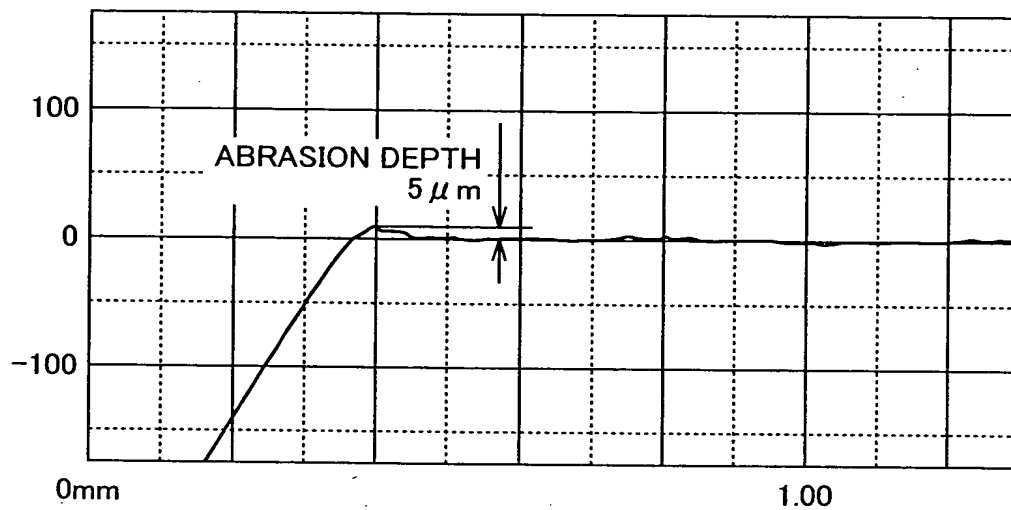


FIG.10B

CASE DEPTH $3\text{ }\mu\text{m}$
(μm) PROFILE CURVE
(LONGITUDINAL MAGNIFICATION: $\times 100.00$
LATERAL MAGNIFICATION: $\times 50.00$)

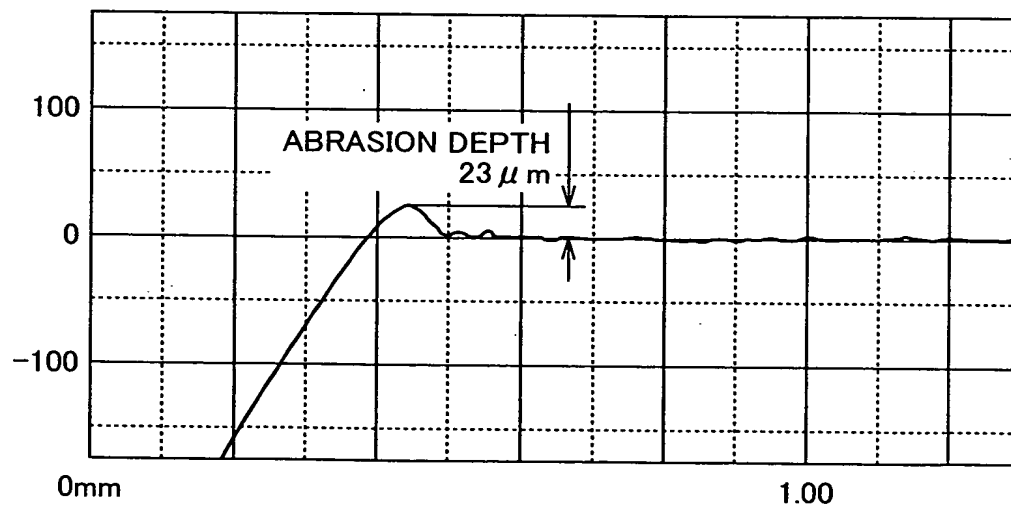


FIG.11A

CASE DEPTH $90\text{ }\mu\text{m}$
(WITHOUT CRACK)

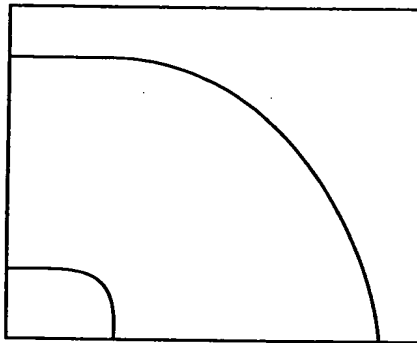
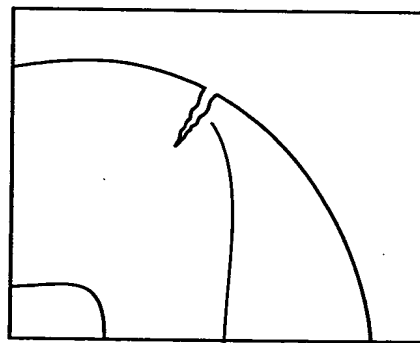


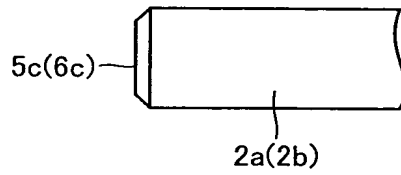
FIG.11B

CASE DEPTH $100\text{ }\mu\text{m}$



CRACK

FIG.12



NOTE: AN END FACE $5c$ ($6c$) HAVING A RECESS
IN ITS CENTRAL PORTION IS INCLUDED.

FIG.13A

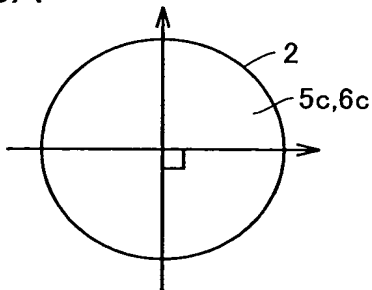


FIG.13B

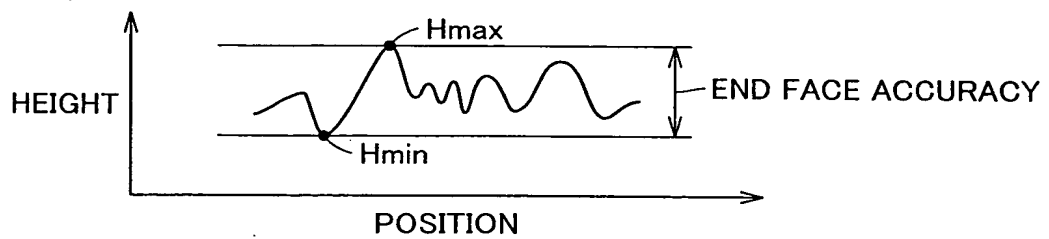


FIG.14

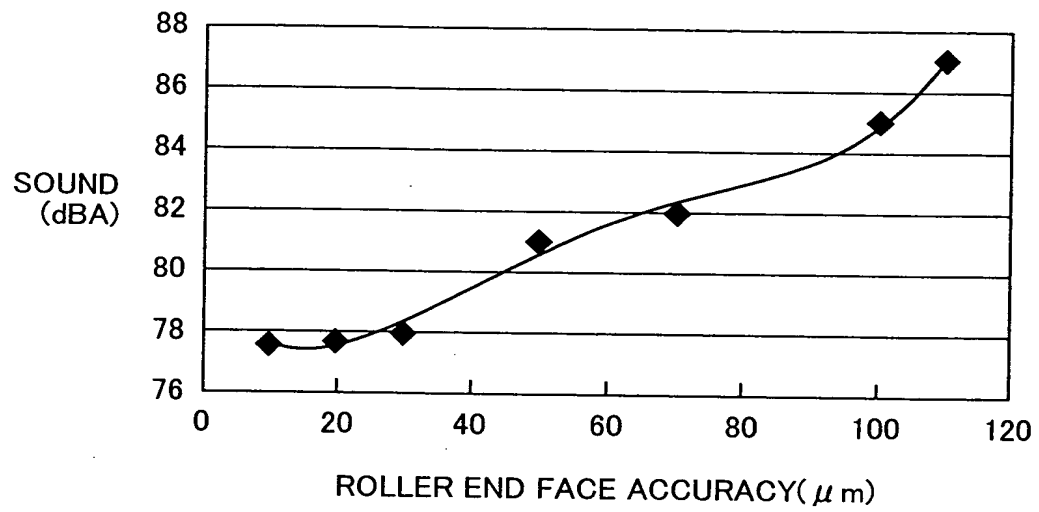


FIG.15A PRIOR ART

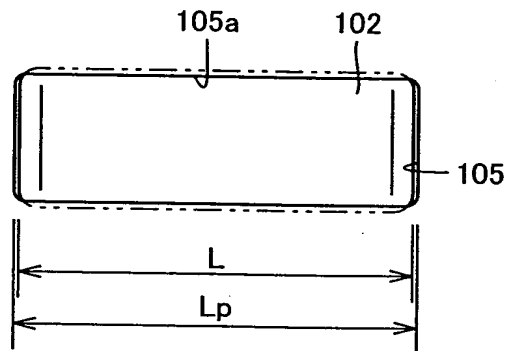


FIG.15B PRIOR ART

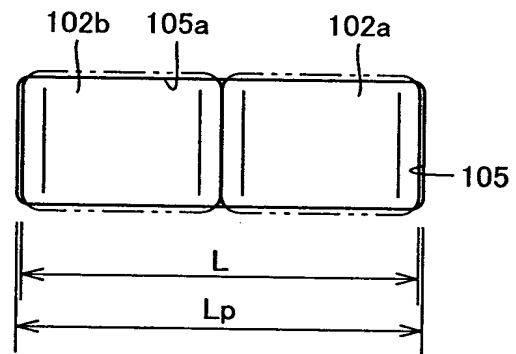


FIG.16A PRIOR ART

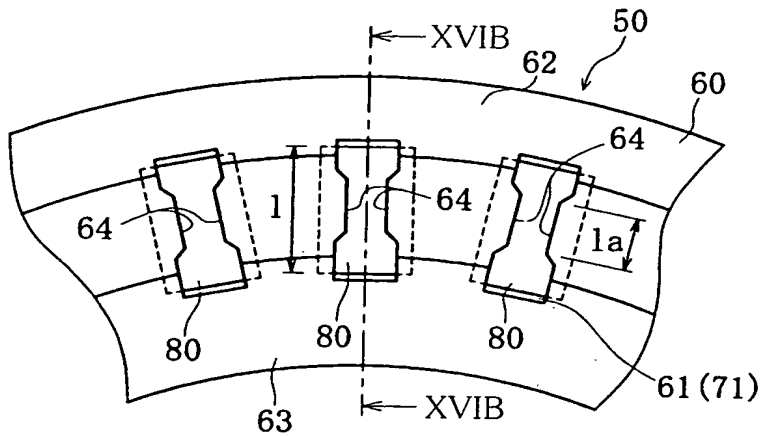


FIG.16B PRIOR ART

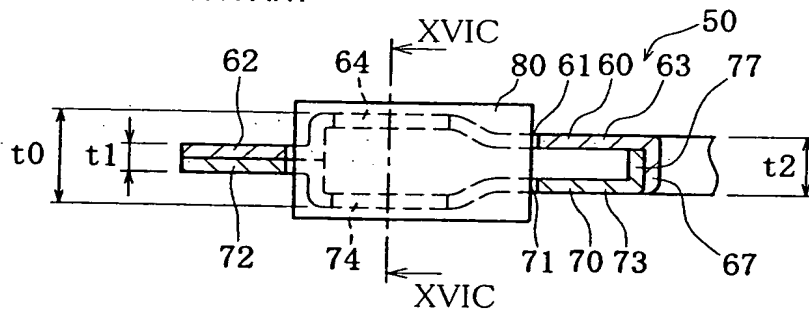


FIG.16C PRIOR ART .

